Claims

I claim:

- 1. A modular building system comprising:
 - (a) multiple modules, wherein each of said multiple modules comprise:
 - (i) structural steel mesh comprising a backbone and two fins;
 - (ii) cementitious mortar encasing said backbone and said two fins of said structural steel mesh and yielding six sides and eight edges of said module; and
 - .(iii) indentations in said six sides and said eight edges of said cementitious mortar, exposing portions of said structural steel mesh; and
- (b) metal plate connectors, wherein said metal plate connectors are welded to said exposed portions of said structural steel mesh thereby connecting adjacent modules.
- 2. The modular building system of claim 1, wherein said two fins of said module measure approximately 50 mm from said backbone.
- 3. The modular building system of claim 1, further comprising epoxy resin on said edges of said module in contact with an adjacent module.
- 4. A method of manufacturing modules comprising:
 - (a) bending opposite ends of structural steel mesh approximately ninety degrees;
 - (b) placing said structural steel mesh in molds;
 - (c) pouring cementitious mortar into said molds, and

- (d) removing said molds to yield said modules.
- 5. The method of claim 4, wherein approximately 50 mm of each end of said structural steel mesh is bent to create fins approximately 50 mm long.
- 6. The method of claim 4, wherein
 - step (d) removing said molds to yield said modules
 occurs at least twenty-four hours after
 step (c) pouring said cementitious mortar into said molds.
- 7. The method of claim 4, further comprising:
 - (e) submersing said modules in water for at least thirty-six hours.
- 8. A method of building a structure, said method comprising:
 - (a) manufacturing modules comprising structural steel mesh and cementitious mortar, wherein said modules comprise indentations exposing said structural steel mesh;
 - (b) manufacturing a foundation comprising structural steel mesh and cementitious mortar, wherein said foundation comprises indentations exposing said structural steel mesh;
 - (c) connecting one row of said modules to said foundation comprising:
 - (i) aligning said indentation of said module with said indention of said foundation,
 - (ii) welding a metal plate connector to said exposed structural steel mesh of said indentations, and

- (iii) filling in said indentation with cementitious mortar;
- (d) connecting said modules to adjacent modules comprising:
 - (i) aligning said indentation of said module with said indention of said adjacent module,
 - (ii) welding a metal plate connector to said exposed structural steel mesh of said indentations, and
 - (iii) filling in said indentation with cementitious mortar;
- (e) adding additional rows of modules following the method of step (d) until the desired structural height is reached; and
- (f) adding a conventional roof onto the final row of modules.